

BEST AVAILABLE COPY



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) Publication number:

0 601 618 A3

(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: 93203045.5

(61) Int. Cl.: A61K 47/48, A61K 9/51,  
A61K 49/04

(22) Date of filing: 30.10.93

(30) Priority: 11.12.92 US 989281

(43) Date of publication of application:  
15.06.94 Bulletin 94/24

(64) Designated Contracting States:  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

(68) Date of deferred publication of the search report:  
02.11.95 Bulletin 95/44

(71) Applicant: EASTMAN KODAK COMPANY  
343 State Street  
Rochester,  
New York 14650 (US)

(72) Inventor: Na, George C., c/o Sterling Winthrop

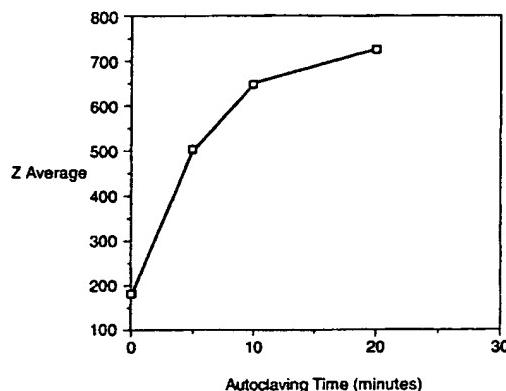
Inc.  
Patent Department,  
90 Park Avenue  
New York,  
New York 10016 (US)  
Inventor: Rajagopalan,Natarajan,c/o Sterling  
Winthrop Inc.  
Patent Department,  
90 Park Avenue  
New York,  
New York 10016 (US)

(74) Representative: Halle, Helen Cynthia et al  
Kodak Limited  
Patent Department  
Headstone Drive  
Harrow,  
Middlesex HA1 4TY (GB)

(54) Use of charged phospholipids for decreasing nanoparticulate aggregation.

(57) A composition comprising nanoparticles having a non-ionic surfactant as a surface modifier adsorbed on the surface thereof and a charged phospholipid as a cloud point modifier associated therewith, which cloud point modifier is present in an amount sufficient to increase the cloud point of the surface modifier and methods of making such nanoparticles are described. A preferred non-ionic surfactant is a poloxamine or tyloxapol, and a preferred cloud point modifier is dimyristoyl phosphatidyl glycerol.

FIG. 1



EP 0 601 618 A3

BEST AVAILABLE COPY



European Patent  
Office

EUROPEAN SEARCH REPORT

Application Number  
EP 93 20 3045

DOCUMENTS CONSIDERED TO BE RELEVANT									
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.)						
E	WO-A-94 07940 (ZENECA LTD.) 14 April 1994 * page 4, line 9 - line 17; claims * ---	1	A61K47/48 A61K9/51 A61K49/04						
A	EP-A-0 418 153 (MEDGENIX GROUP S.A.) 20 March 1991 * page 3, line 26 - line 35; claims * ---	1,2,7-12							
A	EP-A-0 270 460 (IRE-CELLTARG S.A.) 8 June 1988 * page 4, line 44 - line 56; example 2 * ---	1,2,7-12							
E	EP-A-0 605 024 (STERLING WINTHROP INC.) 6 July 1994 * page 5, line 47 - line 52; claims * ---	1-18							
E	EP-A-0 602 700 (STERLING WINTHROP INC.) 22 June 1994 * page 5, line 52 - line 56; claims * ---	1-18							
E	EP-A-0 605 024 (IRE CELLTARG SA ODOC CAESAR ACCESSION NUMBER: EP605024) 6 July 1994 * page 3 * * page 5, line 47 - line 52; claims * ---	1-18	TECHNICAL FIELDS SEARCHED (Int.Cl.)						
E	EP-A-0 602 702 (STERLING WINTHROP INC.) 22 June 1994 * column 2, line 51 - column 3, line 40 * * column 7, line 7 - line 21 * -----	1-18	A61K						
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>5 September 1995</td> <td>Berte, M</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	5 September 1995	Berte, M
Place of search	Date of completion of the search	Examiner							
THE HAGUE	5 September 1995	Berte, M							
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document P : intermediate document							
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document									